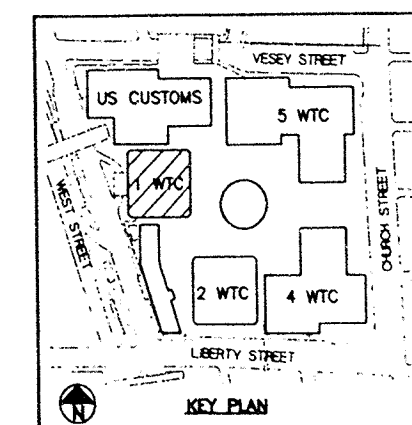


SPEAKER PLAN

- NOTES:**
1. FOR GENERAL NOTES, LEGEND, RISER, SEE DRAWING F-1-2-1.
 2. THE CONTRACTOR SHALL DISCONNECT AND REMOVE OLD (EXISTING) SPEAKERS NOT SHOWN TO REMAIN ONLY AFTER INSTALLED DEVICES ARE OPERATIONAL AS DIRECTED AND IN THE PRESENCE OF THE ENGINEER. IN ADDITION THE CONTRACTOR SHALL REMOVE THE EXISTING AMPLIFIERS AND THE ASSOCIATED WIRING FROM THE 'C' CLASS. THE AMPLIFIERS SHALL BE TURNED OVER TO THE PORT AUTHORITY. THE EXISTING AMPLIFIERS TO BE REMOVED SHALL BE DONE ONLY AFTER THE NEW SPEAKERS ARE TESTED. REFER TO DWG. No. F-1-2-2 FOR DETAILS.
 3. RETURN ALL REMOVED EXISTING DEVICES TO THE PORT AUTHORITY.
 4. ALIGN CENTER LINES OF SPEAKERS ON WHICH WORK TO BE DONE IN THE CORRIDOR TO THE CENTER LINE OF THE CORRIDOR. IN CASE OF CONFLICT WITH EXISTING CEILING LIGHTING, SPRINKLERS AND GRILLS, ADJUST FINAL LOCATION OF SPEAKERS ON WHICH WORK TO BE DONE IN THE FIELD UNDER THE DIRECTION OF ENGINEERS.
 5. CONTRACTOR SHALL REWIRE EXISTING SPEAKERS INDICATED TO REMAIN AS SHOWN.
 6. CONTRACTOR SHALL REMOVE ALL EXISTING SPEAKER EQUIPMENT NOT REQUIRED FOR NEW SPEAKER SYSTEM.

SPEAKER CIRCUIT/LOADING TABLE									
SPEAKER TYPE & SETTING	(WATTS)	1/4	1/2	1	2	TOTAL POWER (WATTS)	CIRCUIT LENGTH (FT)		
SPKR-A	4	5	2	3	-	5,700	480		
SPKR-B	2	7	2	4	-	7,000	480		
SPKR-C	3	8	8	-	-	5,875	470		
SPKR-D	4	5	7	-	-	5,250	480		
GRAND TOTAL						23,875	1930		



Sheet 01

**THE PORT AUTHORITY
OF NY & NJ**

**Joseph R. Loring
& Associates, Inc.**
consulting engineers

One Pennsylvania Plaza
New York, New York 10119-0045
Tel: (212) 563-7400
Fax: (212) 563-7382

SCR Design Organization, Inc.
architects
305 EAST 46 STREET
NEW YORK, N.Y. 10017
TEL: (212) 421-3500

No.	Date	Revision	Approved
1	6/24/98	AS BID	DC

**Engineering Department
Design Division**

**The World Trade
Center**

Title
**TOWER 1
FLOOR 78
FIRE ALARM
SPEAKER
INSTALLATION AND
REMOVAL PLAN**

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

F.D.	F.D.	4565.000
Designed by	Drawn by	JRLA JOB No.
4/27/98	P.E.N.	3/32"=1'-0"
Date	Checked by	Scale

Contract Number
WTC-857.090

Drawing Number
F-1-78-1